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Julie Bowker Julie Bowker
Name (Print) Signature

464.1009 CON2

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10 **System and Method for Programmable Illumination**
 Pattern Generation

Field of the Invention:

 The present invention generally relates to the field of materials science and
15 analytical chemistry.

 The present invention specifically relates to the realization of a complete,
functionally integrated system for the implementation of biochemical analysis in a planar,
miniaturized format on the surface of a conductive and/or photoconductive substrate, with
applications in pharmaceutical and agricultural drug discovery and in in-vitro or genomic
20 diagnostics. In addition, the method and apparatus of the present invention may be used to
create material surfaces exhibiting desirable topographical relief and chemical functionality,
and to fabricate surface-mounted optical elements such as lens arrays.

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Date December 18, 2000
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Julie Bowker Julie Bowker
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**System and Method for Programmable Illumination
Pattern Generation**

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Date December 18, 2000
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**System and Method for Programmable Illumination
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